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B30B-015/06

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**JAPIO Class:**

25.1 (MACHINE TOOLS--- Pressing)

**Abstract:**

**PURPOSE:** To prevent the vibration of a press by providing a frame in a reciprocating manner in the vertical direction, and connecting a balancing weight to the frame through a link mechanism to prevent the balancing weight from horizontally reciprocating.

**CONSTITUTION:** In a press 10, a link 38a is connected to an upper frame 14, and a link 38b is connected to a slide 20 respectively. The unbalanced force attributed to the vertical motion of the slide 20 is balanced by a balancing device 84. The balancing device 84 is located above the link mechanisms 36, 38 and a crankshaft 16, and provided with a balancing weight 86 which is movably supported in the vertical direction by the upper frame 14 and a weight guide 88 which limits the reciprocating motion of the balancing weight 86 in the vertical direction. A pair of connecting links 90 corresponding to the link mechanism 38 are provided. When the links 38a, 38b are bent, the bending angle of the links 38a, 90 is changed, and the balancing weight 86 is moved in the vertical direction. The unbalanced force attributed to the vertical motion of the slide 20 is cancelled by the balancing weight 86.

**JAPIO**

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